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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,458	09/20/2004	Toshiharu Furukawa	BUR920030181US1	5457
	7590 06/16/200 [ & BERNSTEIN, P.L.(	EXAMINER		
1950 ROLAND CLARK DRIVE			CHEA, THORL	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			06/16/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)		
	10/711,458	FURUKAWA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Thorl Chea	1795		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with th	e correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS fute, cause the application to become ABANDO	ON. e timely filed  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>27</u> This action is <b>FINAL</b> . 2b) ☑ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final.  vance except for formal matters,			
Disposition of Claims				
4) ☐ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are withdrest is/are allowed.  5) ☐ Claim(s) 1-16 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and comparison.	rawn from consideration.			
9) The specification is objected to by the Exami	ner			
10) The drawing(s) filed on is/are: a) a constant any objection to the Replacement drawing sheet(s) including the correction of the	ccepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:			

Application/Control Number:

## **DETAILED ACTION**

- 1. This office action is responsive to the communication on submitted on February 27, 2008; claims 1-20 are pending in this instant application.
- 2. The objection to the drawing is withdrawn in view of the argument and the drawing provide in the response on February 27, 2008.

## Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 is unclear. See for instance the language in the step of "forming and memorizing a first edge of the memory layer". The specification fails to point the different between the forming and memorizing. Therefore, the scope of protection between these two steps is either unclear or indefinite. The claiming of the "memory material" in "loop of sub-lithographic well-controlled image size of memory material" in claim 1 is unclear whether these material is the material forming the memory layer or otherwise. There is no antecedent basis for the term "the memory layer" in claim 11. See claim 11 line 2 which recites "a memory material", while lines 4-6 recites the "memory layer". Therefore, there is an inconsistency between the languages previously recited. The scope of the protection sought for the underlying material" in claim 2, and the protective layer in claims 11, 13, 14 is indefinite since the specification fails to provide support for such claiming.

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5. Claims 17-20 are allowed.

Response to Arguments

6. Applicant's arguments filed February 27, 2008 have been fully considered but they are

not persuasive for the reason set fort above. The underlying material or the protective layer

presented in the claimed invention is not limited to the underlying oxide layer or the capping

layer presented in the argument. The claimed terminology presented in the claims is not

presented in the specification. Therefore, the scope thereof cannot be determined in view of the

specification disclosure.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thorl Chea whose telephone number is (571) 272-1328. The

examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia H. Kelly can be reached on (571)272-1526. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tch 2008-06-09 /Thorl Chea/ Primary Examiner, Art Unit 1795